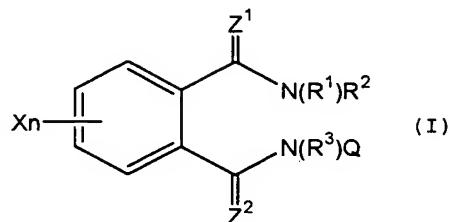


## ABSTRACT

Heterocyclic amine derivatives represented by general formula (I):



wherein  $R^1$ ,  $R^2$  and  $R^3$  represent each H, optionally halogenated  $C_{3-6}$  cycloalkyl, etc.; Q represents an optionally substituted heterocycle containing O, S or N; X represents halogeno, cyano, halo( $C_{1-6}$ )alkyl, etc.; n is from 1 to 4; and  $Z^1$  and  $Z^2$  represent each O or S; and intermediates thereof represented by the following general formula (IV'):  $Q'-NH_2$  wherein  $Q'$  represents a definite heterocycle selected from among those represented by Q. Agricultural/horticultural insecticides having a remarkable effect of controlling pest insects of crops such as rice, fruit trees and vegetables, as well as various agricultural, forestry, horticultural and stored grain pest insects.